

1 3. A flowline for producing hydrocarbons from a subsea well
2 that is comprised of a substantially neutrally buoyant
3 tubular composite umbilical means, whereby said tubular
4 composite umbilical means that contains any produced
5 hydrocarbons is substantially neutrally buoyant in the sea
6 water adjacent to said subsea well.

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8 4. A flowline for producing hydrocarbons from a subsea well
9 that is comprised of a positively buoyant tubular composite
10 umbilical means that possesses electrical heating means
11 within the tubular walls of said tubular composite umbilical
12 means to prevent waxes and hydrates from forming within said
13 flowline and blocking said flowline, whereby said electrical
14 heating means is comprised of at least one electrical
15 conductor disposed within said tubular walls of said
16 composite umbilical means that conducts electrical current
17 that is used to heat said tubular composite umbilical means,
18 and whereby said tubular composite umbilical means that
19 contains any produced hydrocarbons is positively buoyant in
20 the sea water adjacent to said subsea well.

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22 5. A method of using a flowline for producing hydrocarbons
23 from a subsea well that is comprised of a positively buoyant
24 tubular composite umbilical means that possesses electrical
25 heating means within the tubular walls of said tubular
26 composite umbilical means to prevent waxes and hydrates from
27 forming within said flowline and blocking said flowline,
28 whereby said electrical heating means is comprised of at
29 least one electrical conductor disposed within said tubular
30 walls of said composite umbilical means that conducts
31 electrical current that is used to heat said tubular
32 composite umbilical means, and whereby said tubular composite
33 umbilical means that contains any produced hydrocarbons is

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**"SUBSTANTIALLY NEUTRALLY BUOYANT AND
POSITIVELY BUOYANT ELECTRICALLY HEATED FLOWLINES..."**
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1 positively buoyant in the sea water adjacent to said subsea
2 well.

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4 6. A flowline for producing hydrocarbons from a subsea well
5 that is comprised of a positively buoyant tubular composite
6 umbilical means, whereby said tubular composite umbilical
7 means that contains any produced hydrocarbons is positively
8 buoyant in the sea water adjacent to said subsea well.

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